



ENTERED

PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/030,951

DATE: 08/05/2002

TIME: 11:11:59

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw

3 <110> APPLICANT: The Government of the United States of America as
 4 Buchholz, Ursula
 5 Collins, Peter L.
 6 Murphy, Brian R.
 7 Whitehead, Stephen S.
 8 Krempf, Christine D.

10 <120> TITLE OF INVENTION: Production of Attenuated Human-Bovine Chimeric Respiratory
 Syncytial
 11 Virus Vaccines

13 <130> FILE REFERENCE: NIH-0377

15 <140> CURRENT APPLICATION NUMBER: 10/030,951

16 <141> CURRENT FILING DATE: 2002-01-08

18 <160> NUMBER OF SEQ ID NOS: 23

20 <170> SOFTWARE: PatentIn version 3.1

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 80

24 <212> TYPE: DNA

25 <213> ORGANISM: Bovine respiratory syncytial virus

27 <400> SEQUENCE: 1

28 agttattttaa aattaaactt aaaaatgggtt tatggttaca tacagatggtt ggggcaaata 60
 30 caagtatgtc caaccatacc 80

33 <210> SEQ ID NO: 2

34 <211> LENGTH: 80

35 <212> TYPE: DNA

36 <213> ORGANISM: Artificial Sequence

38 <220> FEATURE:

39 <223> OTHER INFORMATION: Synthetic bovine RSV

41 <400> SEQUENCE: 2

42 agttattttaa aattaaactt aaaaatgggtt tatgtcgaca tacagatggtt ggggcaaata 60
 44 caagtatgtc caaccatacc 80

47 <210> SEQ ID NO: 3

48 <211> LENGTH: 70

49 <212> TYPE: DNA

50 <213> ORGANISM: Artificial Sequence

52 <220> FEATURE:

53 <223> OTHER INFORMATION: Synthetic human and bovine RSV

55 <400> SEQUENCE: 3

56 agttattttaa aattaaactt aaaaatgggtt tatgtcgact ggggcaaata caaacatgtc 60
 58 caaaaacaag 70

61 <210> SEQ ID NO: 4

62 <211> LENGTH: 87

63 <212> TYPE: DNA

64 <213> ORGANISM: Human respiratory syncytial virus

66 <400> SEQUENCE: 4

RAW SEQUENCE LISTING

DATE: 08/05/2002

PATENT APPLICATION: US/10/030,951

TIME: 11:11:59

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw

```

67 agttaattaa aaatagtcac aacaatgaac taggatatca agactaaca taacattggg 60
69 gcaaatgcaa acatgtccaa aaacaag 87
72 <210> SEQ ID NO: 5
73 <211> LENGTH: 62
74 <212> TYPE: DNA
75 <213> ORGANISM: Bovine respiratory syncytial virus
77 <400> SEQUENCE: 5
78 agttatttaa aaagatatgt ataattcact aattaaaact ggggcaaata aggatggcga 60
80 ca 62
83 <210> SEQ ID NO: 6
84 <211> LENGTH: 62
85 <212> TYPE: DNA
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: .Synthetic bovine RSV
91 <400> SEQUENCE: 6
92 agttatttaa aaagatatgc atgcttcact aattaaaact ggggcaaata aggatggcga 60
94 ca 62
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 87
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
102 <220> FEATURE:
103 <223> OTHER INFORMATION: Synthetic human and bovine RSV
105 <400> SEQUENCE: 7
106 agttacttaa aaacatatata tcacaaaagg ccttgaccaa cttaaacaga atcaaaaataa 60
108 actctggggc aaataacaat ggagttg 87
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 87
113 <212> TYPE: DNA
114 <213> ORGANISM: Human respiratory syncytial virus
116 <400> SEQUENCE: 8
117 agttacttaa aaacatatata tcacaaaagg ccatgaccaa cttaaacaga atcaaaaataa 60
119 actctggggc aaataacaat ggagttg 87
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 87
124 <212> TYPE: DNA
125 <213> ORGANISM: Bovine respiratory syncytial virus
127 <400> SEQUENCE: 9
128 ccatgttgat agttatataa aaatattata ttagtctcaa agaataaaat tatttaacaa 60
130 ccaatcattc aaaaagatgg ggcaaat 87
133 <210> SEQ ID NO: 10
134 <211> LENGTH: 87
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: Synthetic bovine RSV
141 <400> SEQUENCE: 10
142 ccatgttgat agttatataa aaatattata ttagtctcga ggaataaaat cgattaacaa 60

```

RAW SEQUENCE LISTING

DATE: 08/05/2002

PATENT APPLICATION: US/10/030,951

TIME: 11:11:59

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw

```

144 ccaatcattc aaaaagatgg ggcaaat 87
147 <210> SEQ ID NO: 11
148 <211> LENGTH: 74
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Synthetic human and bovine RSV
155 <400> SEQUENCE: 11
156 cctagtttat agttatataa aactcgagga ataaaatcga ttaacaacca atcattcaaa 60
158 aagatggggc aaat 74
161 <210> SEQ ID NO: 12
162 <211> LENGTH: 77
163 <212> TYPE: DNA
164 <213> ORGANISM: Human respiratory syncytial virus
166 <400> SEQUENCE: 12
167 cctagtttat agttatataa aacacaattg aatgccagat taacttacca tctgtaaaaa 60
169 tgaaaactgg ggcaaat 77
172 <210> SEQ ID NO: 13
173 <211> LENGTH: 46
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Synthetic human bovine RSV
180 <400> SEQUENCE: 13
181 agttatttaa aaagatatgc atgcgggggca aataacaatg gagttg 46
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 55
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
192 <400> SEQUENCE: 14
193 ggggcaaata caagttaatt cgcggccgcc ccctctcttc tttctacaga aaatg 55
196 <210> SEQ ID NO: 15
197 <211> LENGTH: 35
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
204 <400> SEQUENCE: 15
205 gcggccgcta aatttaactc ccttgcttag cgatg 35
208 <210> SEQ ID NO: 16
209 <211> LENGTH: 30
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
216 <400> SEQUENCE: 16
217 cacaatgggg caaataagct tagcggccgc 30

```

RAW SEQUENCE LISTING

DATE: 08/05/2002

PATENT APPLICATION: US/10/030,951

TIME: 11:11:59

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw

```

220 <210> SEQ ID NO: 17
221 <211> LENGTH: 24
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
228 <400> SEQUENCE: 17
229 agttagtaaa aataaagacg cggtt                                     24
232 <210> SEQ ID NO: 18
233 <211> LENGTH: 29
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Syntheticrespiratory syncytial virus
240 <400> SEQUENCE: 18
241 ttatgtcgac tggggcaaat gcaaacatg                                     29
244 <210> SEQ ID NO: 19
245 <211> LENGTH: 28
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
249 <220> FEATURE:
250 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
252 <400> SEQUENCE: 19
253 ggggcaaata acaatggagt tgccaatc                                     28
256 <210> SEQ ID NO: 20
257 <211> LENGTH: 29
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
264 <400> SEQUENCE: 20
265 tttttatata actataaaact aggaatcta                                     29
268 <210> SEQ ID NO: 21
269 <211> LENGTH: 42
270 <212> TYPE: DNA
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
276 <400> SEQUENCE: 21
277 aggaattcgc atgcggggca aataacaatg gagttgccaa tc                                     42
280 <210> SEQ ID NO: 22
281 <211> LENGTH: 43
282 <212> TYPE: DNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus
288 <400> SEQUENCE: 22
289 aggaattctc gagtttttat ataactataa actaggaatc tac                                     43
292 <210> SEQ ID NO: 23

```

RAW SEQUENCE LISTING

DATE: 08/05/2002

PATENT APPLICATION: US/10/030,951

TIME: 11:11:59

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw

293 <211> LENGTH: 64

294 <212> TYPE: DNA

295 <213> ORGANISM: Artificial Sequence

297 <220> FEATURE:

298 <223> OTHER INFORMATION: Synthetic respiratory syncytial virus

300 <400> SEQUENCE: 23

301 ttaaacttaa aaatggttta tgtcgaggaa taaaatcgat taacaaccaa tcattcaaaa 60

303 agat 64

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/030,951

DATE: 08/05/2002

TIME: 11:12:00

Input Set : A:\EP.txt

Output Set: N:\CRF4\08052002\J030951.raw